

No.	Compound	Name
P1		(R)-N-{1-[6,6-Bis-(4-fluoro-phenyl)-hexanoyl]-pyrrolidin-3-yl}-3,5-di-tert-butyl-4-methoxy-N-methyl-benzamide
P2		(R)-6,6-Bis-(4-fluoro-phenyl)-hexanoic acid [1-(3,5-di-tert-butyl-4-methoxy-benzoyl)-pyrrolidin-3-yl]-methyl-amide
P3		(R)-N-(1-Benzhydryl-pyrrolidin-3-yl)-N-methyl-3,3-diphenyl-propionamide
P4		(S)-N-{1-[6,6-Bis-(4-fluoro-phenyl)-hexanoyl]-pyrrolidin-3-yl}-3,5-di-tert-butyl-4-methoxy-N-methyl-benzamide
P5		(S)-6,6-Bis-(4-fluoro-phenyl)-hexanoic acid [1-(3,5-di-tert-butyl-4-methoxy-benzoyl)-pyrrolidin-3-yl]-methyl-amide
P6		(S)-N-(1-Benzhydryl-pyrrolidin-3-yl)-N-methyl-3,3-diphenyl-propionamide
P7		(R)-N-Methyl-3,3-diphenyl-N-(1-pyridin-4-ylmethyl-pyrrolidin-3-yl)-propionamide
P8		(R)-N-Methyl-3,3-diphenyl-N-(1-pyridin-3-ylmethyl-pyrrolidin-3-yl)-propionamide

Figure 1

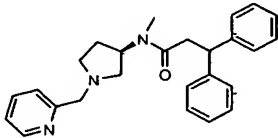
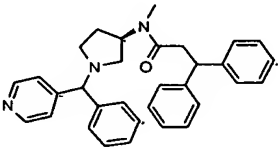
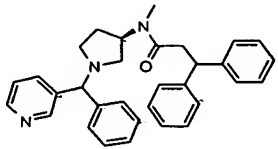
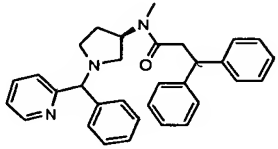
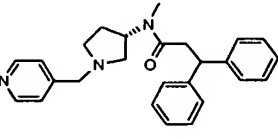
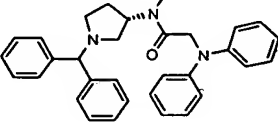
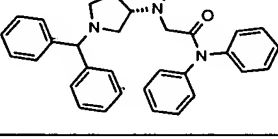
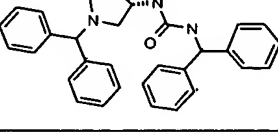
No.	Compound	Name
P9		(R)-N-Methyl-3,3-diphenyl-N-(1-pyridin-2-ylmethyl-pyrrolidin-3-yl)-propionamide
P10		(R)-N-Methyl-3,3-diphenyl-N-[1-(phenyl-pyridin-4-yl-methyl)-pyrrolidin-3-yl]-propionamide
P11		(R)-N-Methyl-3,3-diphenyl-N-[1-(phenyl-pyridin-3-yl-methyl)-pyrrolidin-3-yl]-propionamide
P12		(R)-N-Methyl-3,3-diphenyl-N-[1-(phenyl-pyridin-2-yl-methyl)-pyrrolidin-3-yl]-propionamide
P13		(S)-N-Methyl-3,3-diphenyl-N-(1-pyridin-4-ylmethyl-pyrrolidin-3-yl)-propionamide
P14		(S)-N-(1-Benzhydryl-pyrrolidin-3-yl)-2-diphenylamino-N-methyl-acetamide
P15		(S)-2-[(1-Benzhydryl-pyrrolidin-3-yl)-methyl-amino]-N,N-diphenyl-acetamide
P16		(S)-3-Benzhydryl-1-(1-benzhydryl-pyrrolidin-3-yl)-1-methyl-urea

Figure 1

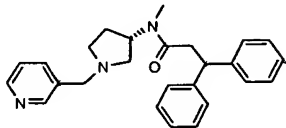
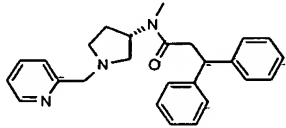
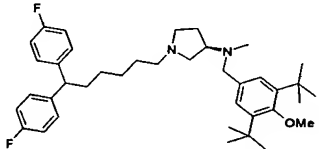
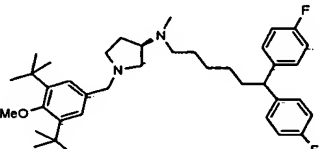
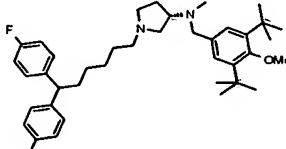
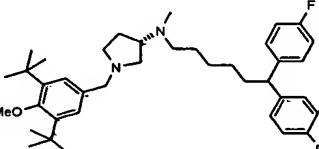
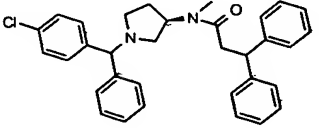
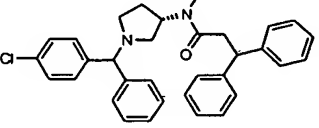
No.	Compound	Name
P17		(S)-N-Methyl-3,3-diphenyl-N-(1-pyridin-3-ylmethyl-pyrrolidin-3-yl)-propionamide
P18		(S)-N-Methyl-3,3-diphenyl-N-(1-pyridin-2-ylmethyl-pyrrolidin-3-yl)-propionamide
P19		(R)-{1-[6,6-Bis-(4-fluoro-phenyl)-hexyl]-pyrrolidin-3-yl}-(3,5-di-tert-butyl-4-methoxy-benzyl)-methyl-amine
P20		(R)-[6,6-Bis-(4-fluoro-phenyl)-hexyl]-[1-(3,5-di-tert-butyl-4-methoxy-benzyl)-pyrrolidin-3-yl]-methyl-amine
P21		(S)-{1-[6,6-Bis-(4-fluoro-phenyl)-hexyl]-pyrrolidin-3-yl}-(3,5-di-tert-butyl-4-methoxy-benzyl)-methyl-amine
P22		(S)-[6,6-Bis-(4-fluoro-phenyl)-hexyl]-[1-(3,5-di-tert-butyl-4-methoxy-benzyl)-pyrrolidin-3-yl]-methyl-amine
P23		(R)-N-{1-[(4-Chloro-phenyl)-phenyl-methyl]-pyrrolidin-3-yl}-N-methyl-3,3-diphenyl-propionamide
P24		(S)-N-{1-[(4-Chloro-phenyl)-phenyl-methyl]-pyrrolidin-3-yl}-N-methyl-3,3-diphenyl-propionamide

Figure 1

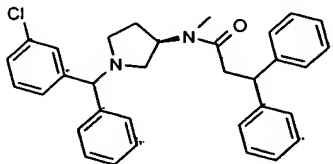
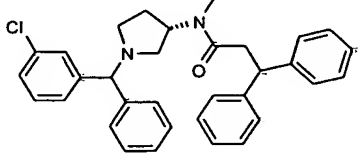
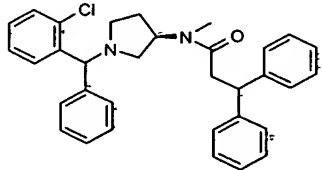
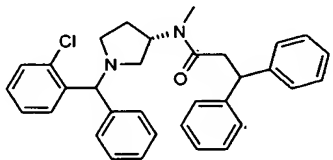
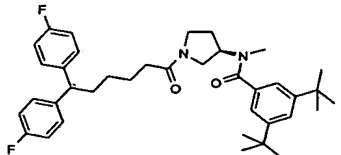
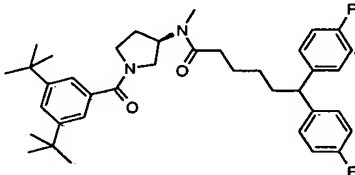
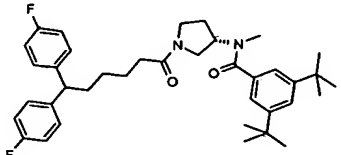
No.	Compound	Name
P25		(R)-N-{1-[(3-Chloro-phenyl)-phenyl-methyl]-pyrrolidin-3-yl}-N-methyl-3,3-diphenyl-propionamide
P26		(S)-N-{1-[(3-Chloro-phenyl)-phenyl-methyl]-pyrrolidin-3-yl}-N-methyl-3,3-diphenyl-propionamide
P27		(R)-N-{1-[(2-Chloro-phenyl)-phenyl-methyl]-pyrrolidin-3-yl}-N-methyl-3,3-diphenyl-propionamide
P28		(S)-N-{1-[(2-Chloro-phenyl)-phenyl-methyl]-pyrrolidin-3-yl}-N-methyl-3,3-diphenyl-propionamide
P29		(R)-N-{1-[6,6-Bis-(4-fluoro-phenyl)-hexanoyl]-pyrrolidin-3-yl}-3,5-di-tert-butyl-N-methyl-benzamide
P30		(R)-6,6-Bis-(4-fluoro-phenyl)-hexanoic acid [1-(3,5-di-tert-butyl-benzoyl)-pyrrolidin-3-yl]-methyl-amide
P31		(S)-N-{1-[6,6-Bis-(4-fluoro-phenyl)-hexanoyl]-pyrrolidin-3-yl}-3,5-di-tert-butyl-N-methyl-benzamide

Figure 1

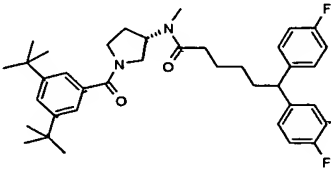
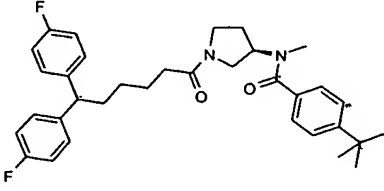
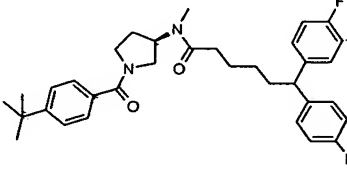
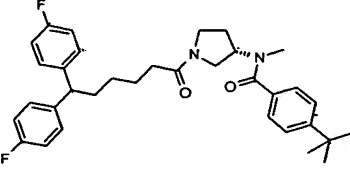
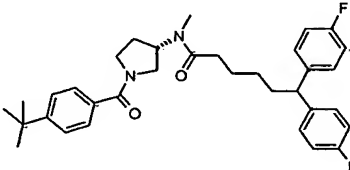
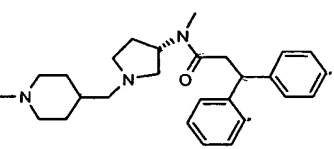
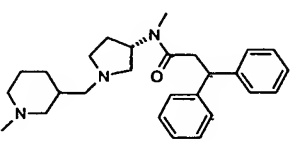
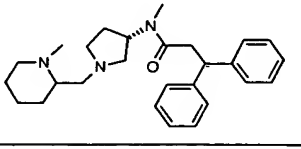
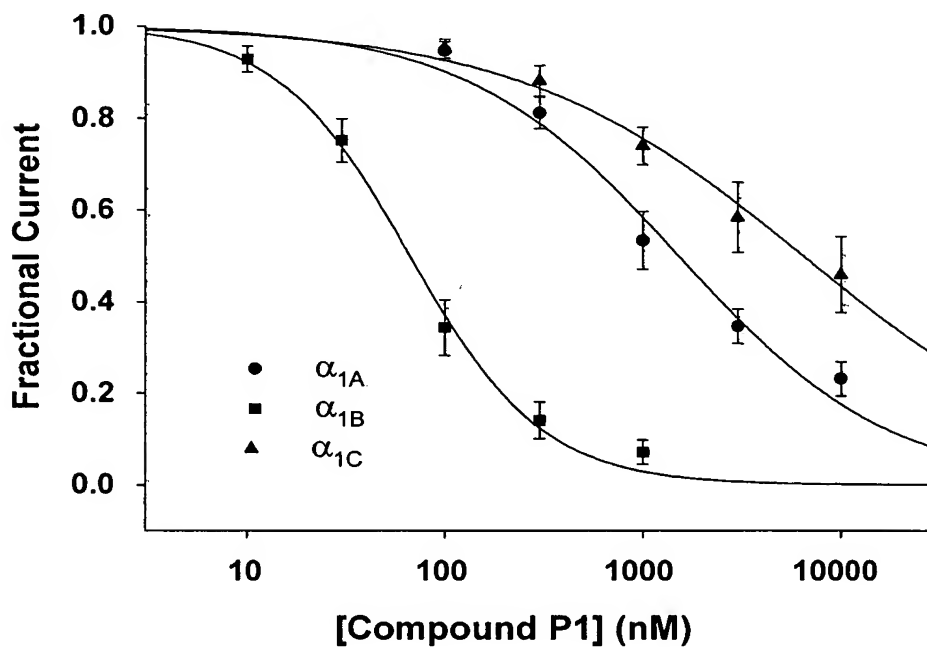
No.	Compound	Name
P32		(S)-6,6-Bis-(4-fluoro-phenyl)-hexanoic acid [1-(3,5-di-tert-butyl-benzoyl)-pyrrolidin-3-yl]-methyl-amide
P33		(R)-N-{1-[6,6-Bis-(4-fluoro-phenyl)-hexanoyl]-pyrrolidin-3-yl}-4-tert-butyl-N-methyl-benzamide
P34		(R)-6,6-Bis-(4-fluoro-phenyl)-hexanoic acid [1-(4-tert-butyl-benzoyl)-pyrrolidin-3-yl]-methyl-amide
P35		(S)-N-{1-[6,6-Bis-(4-fluoro-phenyl)-hexanoyl]-pyrrolidin-3-yl}-4-tert-butyl-N-methyl-benzamide
P36		(S)-6,6-Bis-(4-fluoro-phenyl)-hexanoic acid [1-(4-tert-butyl-benzoyl)-pyrrolidin-3-yl]-methyl-amide
P37		(S)-N-Methyl-N-[1-(1-methyl-piperidin-4-ylmethyl)-pyrrolidin-3-yl]-3,3-diphenyl-propionamide
P38		(S)-N-Methyl-N-[1-(1-methyl-piperidin-3-ylmethyl)-pyrrolidin-3-yl]-3,3-diphenyl-propionamide
P39		(S)-N-Methyl-N-[1-(1-methyl-piperidin-2-ylmethyl)-pyrrolidin-3-yl]-3,3-diphenyl-propionamide

Figure 1

No.	Compound	Name
P40		4-[6,6-Bis-(4-fluoro-phenyl)-hexanoylamino]-1-(3,5-di-tert-butyl-4-methoxy-benzoyl)-pyrrolidine-2-carboxylic acid ethyl ester
P41		4-[6,6-Bis-(4-fluoro-phenyl)-hexanoylamino]-1-(3,5-di-tert-butyl-4-methoxy-benzoyl)-pyrrolidine-2-carboxylic acid
P42		1-Benzhydryl-4-(3,3-diphenyl-propionylamino)-pyrrolidine-2-carboxylic acid ethyl ester
P43		1-Benzhydryl-4-(3,3-diphenyl-propionylamino)-pyrrolidine-2-carboxylic acid
P44		N-(1-Benzhydryl-2-oxo-pyrrolidin-3-yl)-3,3-diphenyl-propionamide
P45		1-Benzhydryl-3-(1-benzhydryl-2-oxo-pyrrolidin-3-yl)-urea
P46		N-(1-Benzhydryl-2-oxo-pyrrolidin-3-yl)-2-diphenylamino-acetamide
P47		2-(1-Benzhydryl-2-oxo-pyrrolidin-3-ylamino)-N, N-diphenyl-acetamide

Figure 1

Effect of Compound P1 on Various HVA Ca^{2+} Channels



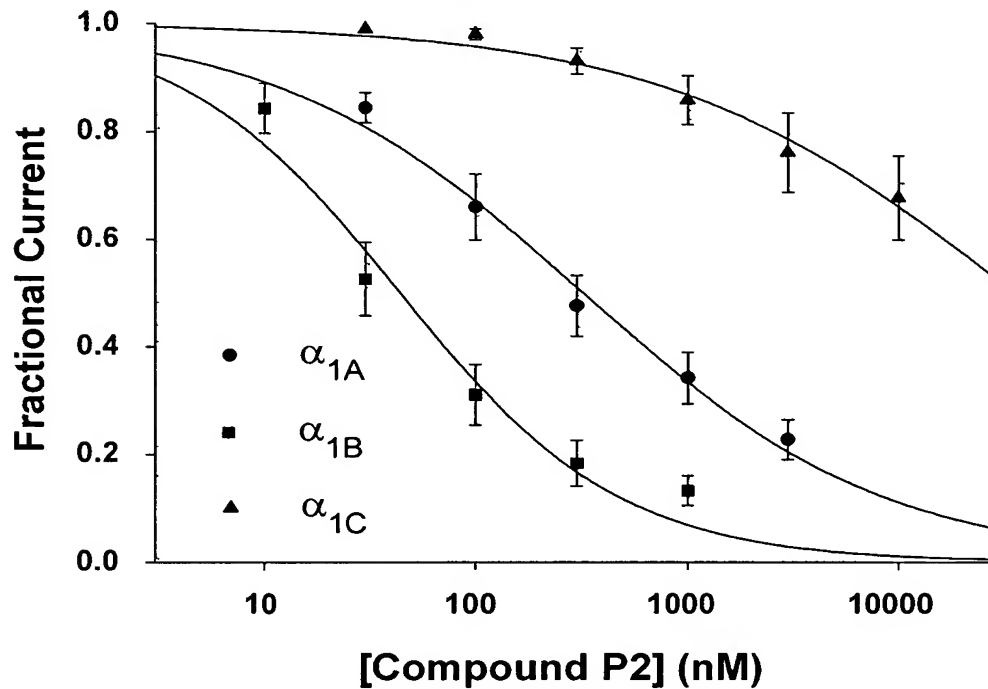
P/Q-type $\text{IC}_{50} = 1722 \pm 429$ nM (n=5)

N-type $\text{IC}_{50} = 74 \pm 17$ nM (n=5)

L-type $\text{IC}_{50} = 5617 \pm 1706$ (n=4)

Figure 2

Effect of Compound P2 on Various HVA Ca^{2+} Channels



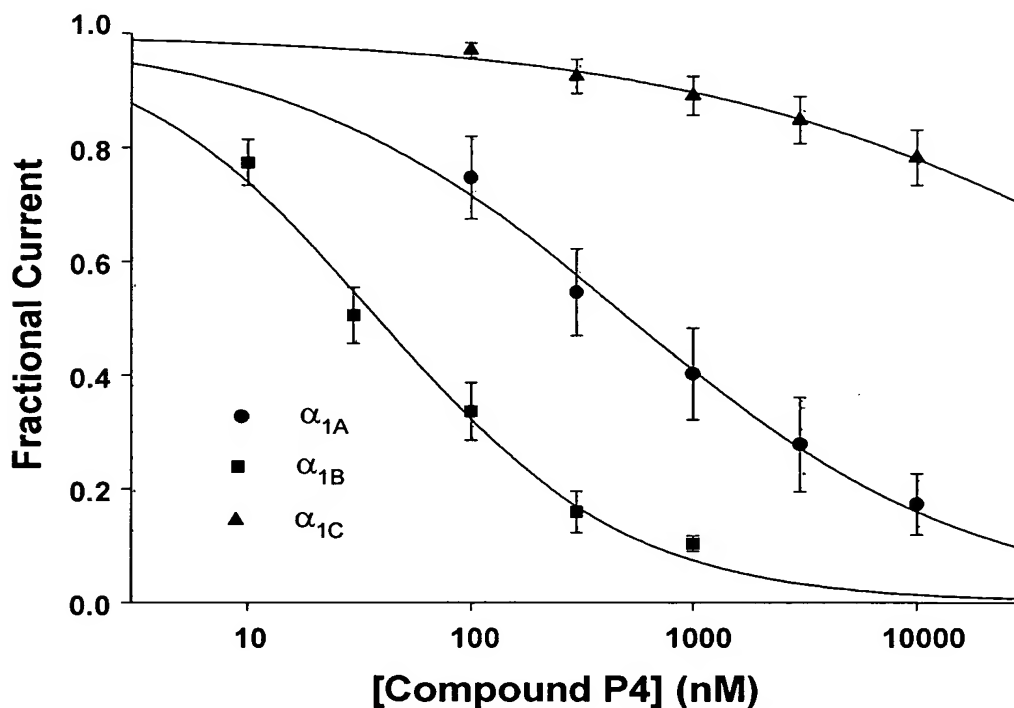
P/Q-type $\text{IC}_{50} = 428 \pm 140 \text{ nM}$ (n=6)

N-type $\text{IC}_{50} = 46 \pm 6 \text{ nM}$ (n=5)

L-type $\text{IC}_{50} \gg 10 \mu\text{M}$ (n=5) (estimate :66 μM)

Figure 3

Effect of Compound P4 on Various HVA Ca^{2+} Channels



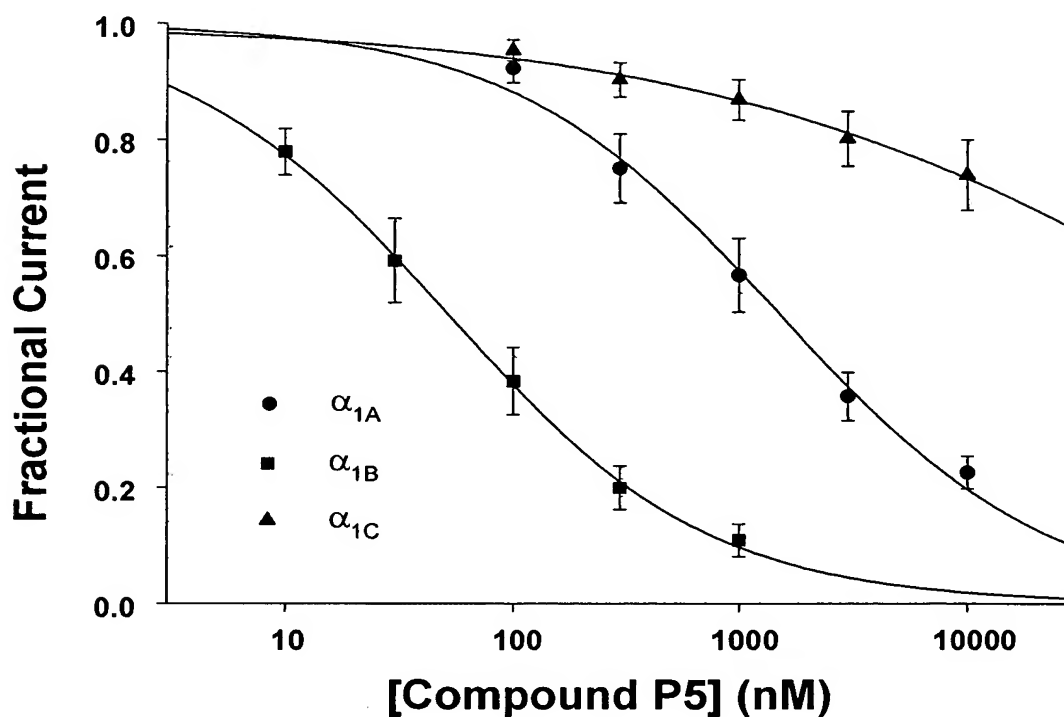
P/Q-type $\text{IC}_{50} = 518 \pm 47 \text{ nM}$ ($n=6$)

N-type $\text{IC}_{50} = 43 \pm 12 \text{ nM}$ ($n=5$)

L-type $\text{IC}_{50} \gg 10 \text{ }\mu\text{M}$ ($n=5$) (estimate : $230 \text{ }\mu\text{M}$)

Figure 4

Effect of Compound P5 on Various HVA Ca^{2+} Channels



P/Q-type $\text{IC}_{50} = 1721 \pm 473 \text{ nM}$ (n=5)

N-type $\text{IC}_{50} = 56 \pm 12 \text{ nM}$ (n=5)

L-type $\text{IC}_{50} >>10 \mu\text{M}$ (n=5) (estimate :146 μM)

Figure 5